KROH, Wladyslaw, mgr.inz.

Information activities of public libraries and propaganda centers in the fields of science and technology in the USSR. Przegl techn 79 no.7:267-269 Ap '58.

MANOLIU, N., dr.; ANGELESCU,C., dr.; DANCU, I., dr.; SALZBERG, N., dr.; MUSTATA, N., dr.; Cu colaborarea tehnica a Laboratorului de biochimie: chim. KRONFALNIC, B.; PAVELESCU, L.; SCHEIN, I.

The study of sideremia, serum transaminase activity and BSP tests in the positive and differential diagnosis of epidemic hepatitis. Med. intern. (Bucur.) 16 no.12:1511-1521 D '64

1. Lucrare efectuata in Spitalul de Stat nr. 12, Bucuresti.

KROHN, I.

Equipment for utilizing waste heat in steel furnaces.

p. 375 (Hutnik, Vol. 7, no. 11, Nov. 1957. Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

KROHOVA, M.; SLANCAR, F.; VACEK, M.

The conference "Effect of radiation on substance".
Jaderna energie 8 no.8:298-300 Ag '62.

ACCESSION NR: AP4019096 Z/0038/64/000/003/0088/0088

AUTHOR: Krohova, Maja; Saxl, Ivan

TITLE: Radiation stability of thermocouples Part I

SOURCE: Jaderna energie, no. 3, 1964, 88

TOPIC TAGS: radiation stability, thermocouple, thermocouple radiation stability, thermoelectric force, charged particle, thermoelectric force change, Blatt thermoelectric force theory

ABSTRACT: Article gives a survey of papers, which have been published up to the present, dealing with measurement of thermoelectric force changes in metals after they had been irradiated with charged particles and neutrons. The Blatt theory concerning changes in thermoelectric force due to point defects is also briefly examined. Theoretical and experimental results are in agreement. The change in thermoelectric force in some types of thermocouples is estimated on the basis of the herein-discussed measurements. The maximum change over the temperature range 0 to 400C and after a dose of 10^{20} neutrons/cm^2 is evaluated as 6×10^{-7} v/°C for iron-constantan and chromel-alumel, and 3×10^{-7} v/°C for

Card 1/2

ACCESSION NR: AP4019096

copper-constantan. The deviation in temperature data at a temperature of 400C is from 2 to 6C for the thermocouples in question. The change will be smaller at higher temperatures owing to the annealing of the point defects. At temperatures below 0C, larger changes in the thermoelectric force should be assumed. [Abstractor's note: this is a complete translation of the original article.] Orig. art. has no graphics.

ASSOCIATION: Ustav jaderneho vyzkumu CSAV, Rez (Institute of nuclear research)

SUBMITTED: 00	DATE ACQ: 23Mar64	ENCL: 00
SUB CODE: PH	NO REF SOV: 000	OTHER: 000

Card 2/2

KROHOVA-SANTAVA, Sylva

On the Properties of the Roots of the Solutions of a System of Two Linear First Order Differential Equations.

Krohová-Santavá, Sylva. Über die Wurzeleigenschaften der Lösungen eines Systems von zwei linearen Differentialgleichungen erster Ordnung. Publ. Fac. Sci. Univ. Masaryk 1955, 429–449. (Russian. German summary)

2 I-F/W

31 V/1

POLAND/Electronics - Electron and Ion Emission H-2

Abs Jour : Ref Zhur - Fizika, No 3, 1958, No 6336

Author : Krohs Alfred
Inst : Not Given
Title : External Photoelectric Effect

Orig Pub : Elektronika, 1957, 3, No 2-3, 29-42

Abstract : Popular description of the properties of photocells, photomultipliers, and electron-optical converters. The characteristics and tables of data are given for various instruments produced by Ziess (Jena). Bibliography, 19 titles. (VED Carl Zeiss, Jena, East Germany.)

Card : 1/1

POLAND/Electricity - Semiconductors G-3

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 1360

Author : Krohs Alfred
Inst : -
Title : The Internal Photoeffect

Orig Pub : Elektronika, 1957, 3, No 4-5, 116-128

Abstract : Brief survey on the physics of the internal photoeffect in semiconductors and its application to devices.

Card 1/1

45274

Z/037/62/000/005-6/029/049
E073/E562

AUTHORS: Gürlich, P., Haeske, A., Krohs, A. and Pohl, H.-J.

TITLE: On the anomaly of secondary emission in layers of alkali-earth oxides

PERIODICAL: Československý časopis pro fysiku, no.5-6, 1962, 620-622

TEXT: The dependence of the coefficient of secondary emission coefficient δ of oxidised alloys of alkali-earth metals on the loading was measured oscillographically for current densities up to 100 μA/mm^2. An Al-Mg alloy, oxidised in a low-frequency glow discharge in an atmosphere of oxygen at 0.1 mm Hg was used as an emitter. The maximum value of δ for a primary voltage of 300 was 4, the density of the primary current density being 70 μA/mm^2. Above a certain current density δ is no longer constant but becomes a function of primary current. Measurements in a retarding field at various current densities and with various degrees of activation confirmed the earlier expressed view of the authors that in semiconductors the existence of inhomogeneous surface fields should be assumed, which counteract the emission of

Card 1/2

On the anomaly of secondary ... Z/037/62/000/005-6/029/049
E073/E562

secondary electrons; a space-charge cloud is formed which reduces the electron emission and generates a potential minimum at the emitter-vacuum boundary. There are 3 figures.

ASSOCIATION: Výskumné laboratoře, VEB Carl Zeiss, Jena
(Research Laboratories, VEB Carl Zeiss, Jena)

Card 2/2

Z/037/62/000/005-6/030/049
E140/E562

AUTHORS: Görlich, P., Krohs, A. and Pohl, H.-J.

TITLE: A new photomultiplier with a small time of flight dispersion

PERIODICAL: Československý časopis pro fysiku, no.5-6, 1962, 623-628

TEXT: A photomultiplier of the type K14FS50, intended for measurements in the region of 10^{-9} sec, has recently been developed and is a continuation in the series of multipliers for scintillation measurements. The paper describes some of the details in the design of a dynode system and the results obtained. In an R.C.A.-type dynode system high values of the electric field strength and dynode current were obtained and thus the dispersion of the transit times and the space charge density were lowered. The starting time was about 2 nsec, the decay 3 nsec, the mean width approximately 3 nsec. The linearity of the impulses is preserved up to a current of 0.5 A. Current pulses up to 1.5 A in a photomultiplier-stilbene scintillator were obtained for gamma radiation of 800 keV. Fig.2 shows a cathode system with

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A new photomultiplier with ... Z/037/62/000/005-6/030/049
E140/E562

spherical focusing electrodes and Fig.4 a dynode system of multiplier. There are 7 figures and 3 tables.

ASSOCIATION: Výzkumné laboratoře VEB, Carl Zeiss, Jena
(Research Laboratory, Carl Zeiss, Jena)

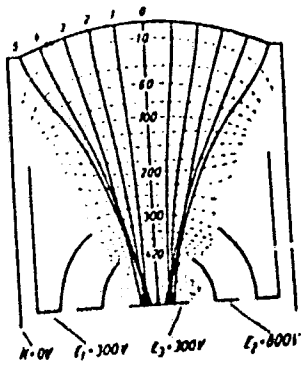


Fig.2

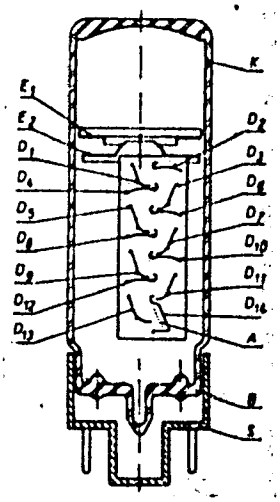
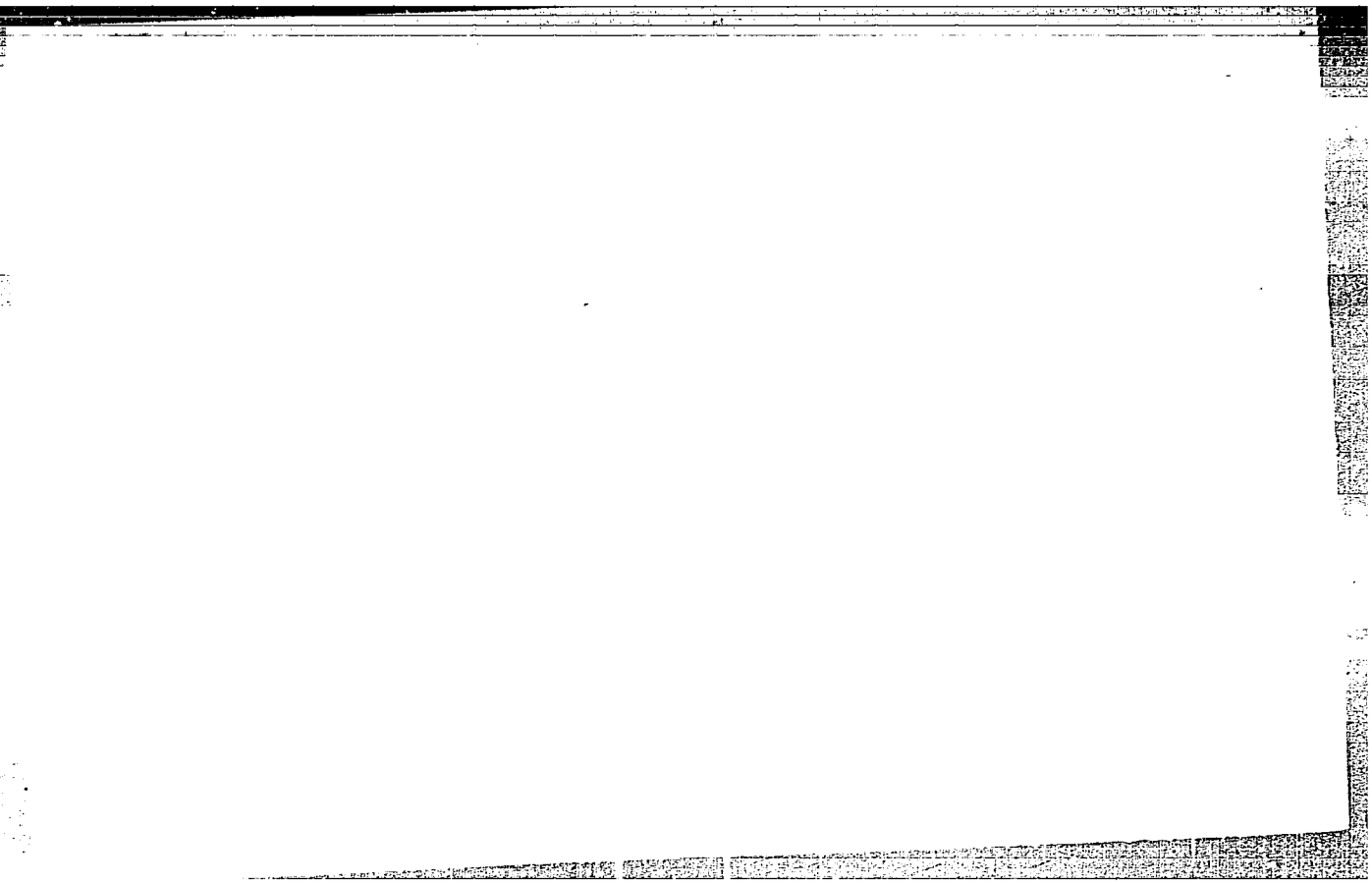
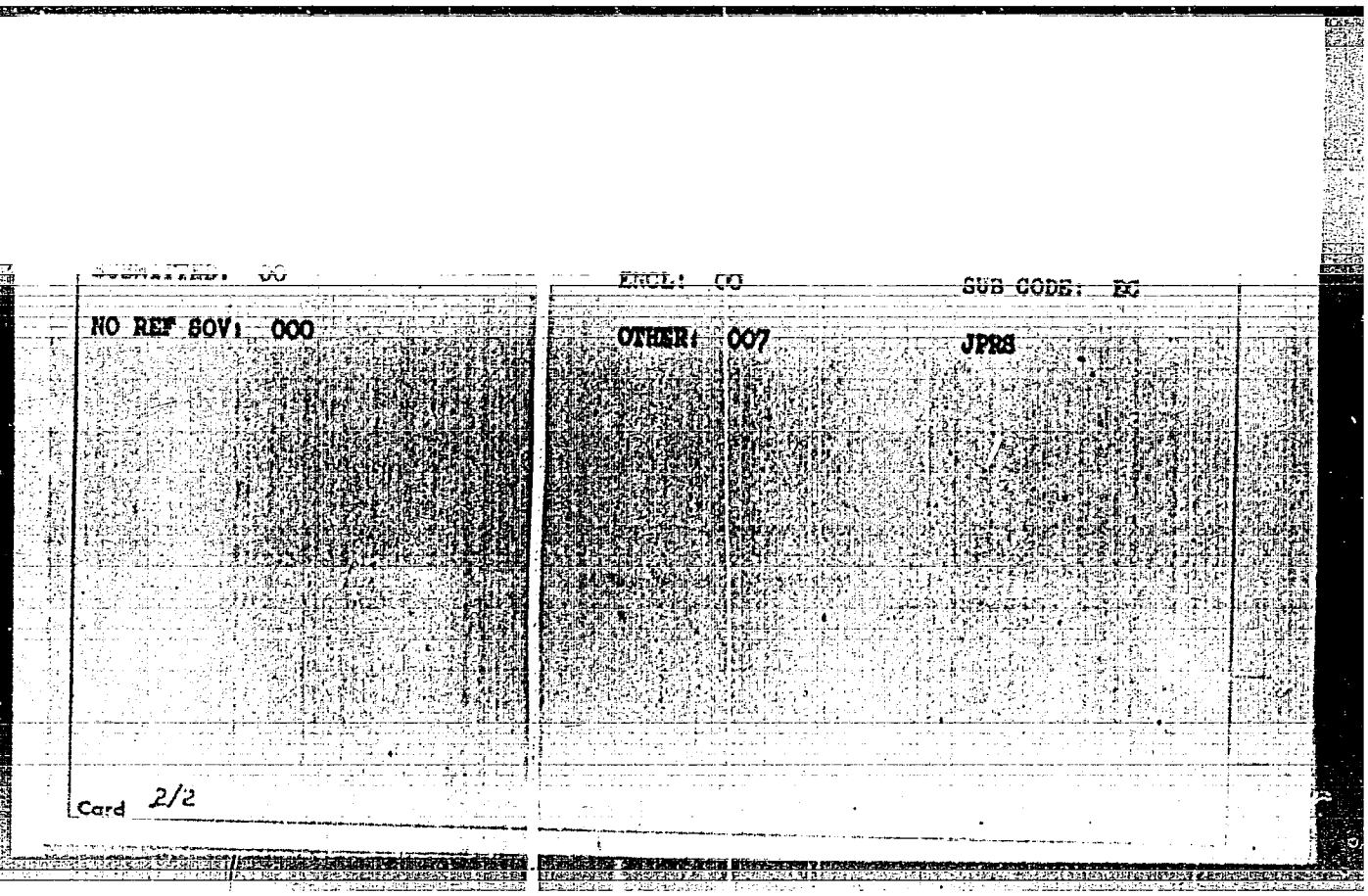


Fig.4

Card 2/2



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826620004-3"



L 26901-66 EWT(m)/EEC(k)-2/T/EWP(k) IJP(c) WG
ACC NR: AP6015378 SOURCE CODE: HU/0031/66/000/005/0145/0148

AUTHOR: Gorlich, P.; Krohs, A.; Pohl, H. J.

ORG: none

TITLE: New photoelectric elements for sensing and detecting high-frequency modulated laser radiation

SOURCE: Finommechanika, no. 5, 1966, 145-148

TOPIC TAGS: laser radiation, laser modulation, photoelectric detection, metrology, automation

ABSTRACT: Following a brief explanation of operational principles (photoelectric conductivity, photoelectric effect of the barrier layer), the authors discuss fundamentals of selecting optimum applications for measuring technology and automation. Basic characteristic features of photoelectronic elements are given, defining the fields of application. An analysis is made of metrology problems to be solved by the use of special elements. New developments of importance for metrology and automation are reported. Orig. art. has: 5 figures and 1 table. [Based on authors' abstract] [KS]

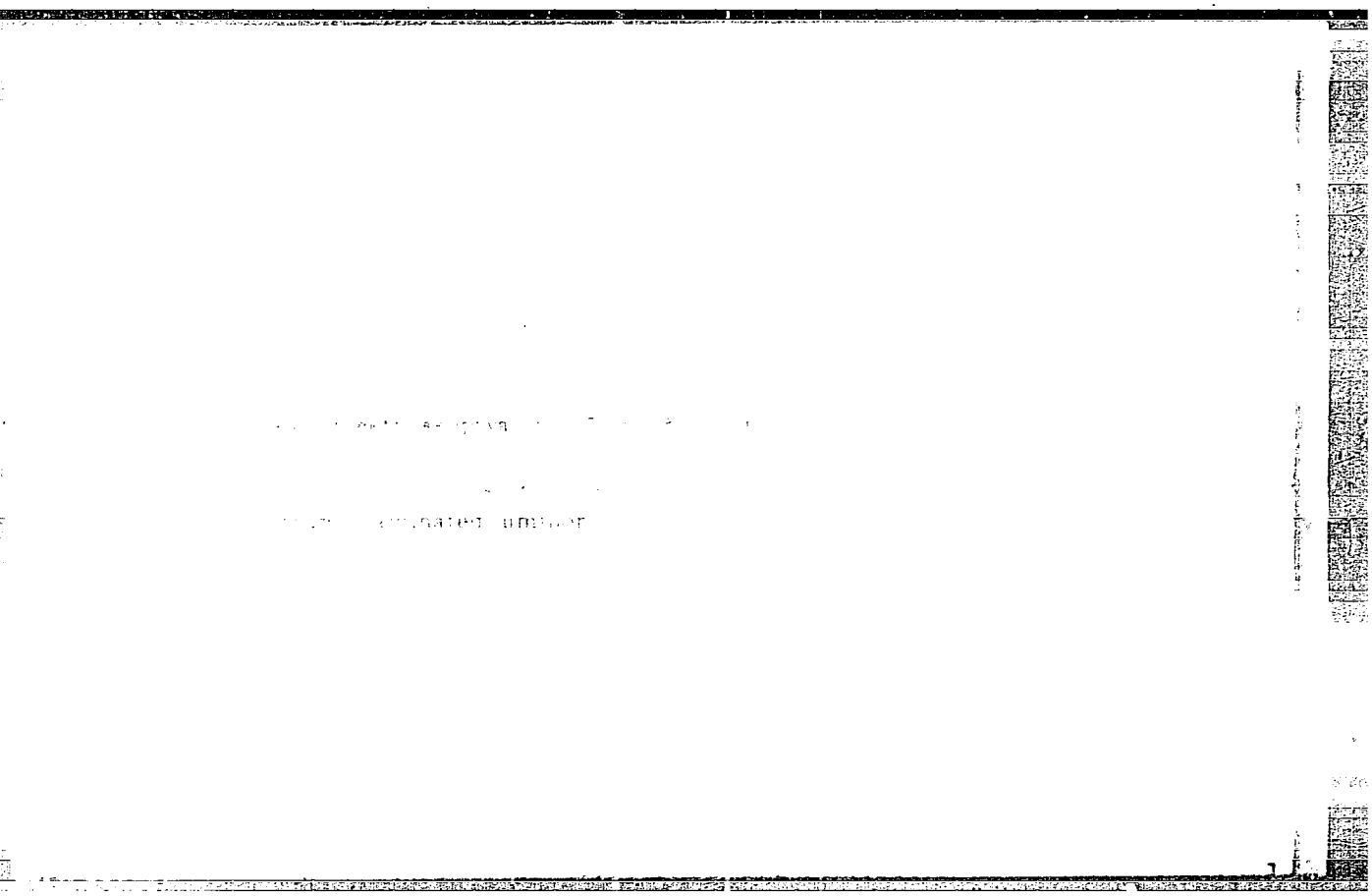
SUB CODE: 14,20/ SUBM DATE: none/ ORIG REF: 001/ OTH REF: 006/ SOV REF: 002

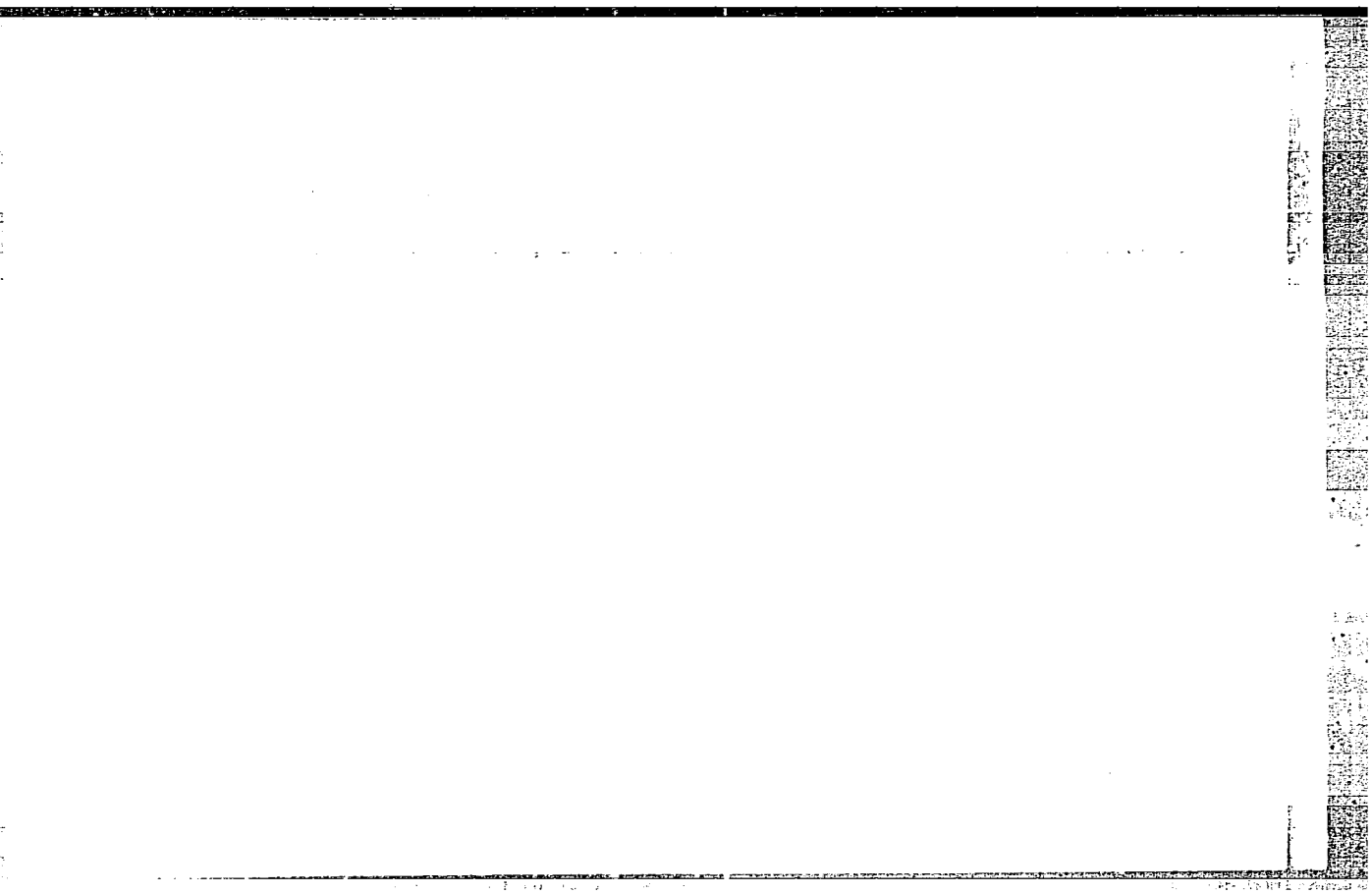
Card 1/1 BLG

KROITORU, Elena [Croitoru, Elen];

High order kinematic invariants. Rev mec appl 8 no. 4: 563-572 '63.

1. Yasskiy Politekhnicheskiy institut.





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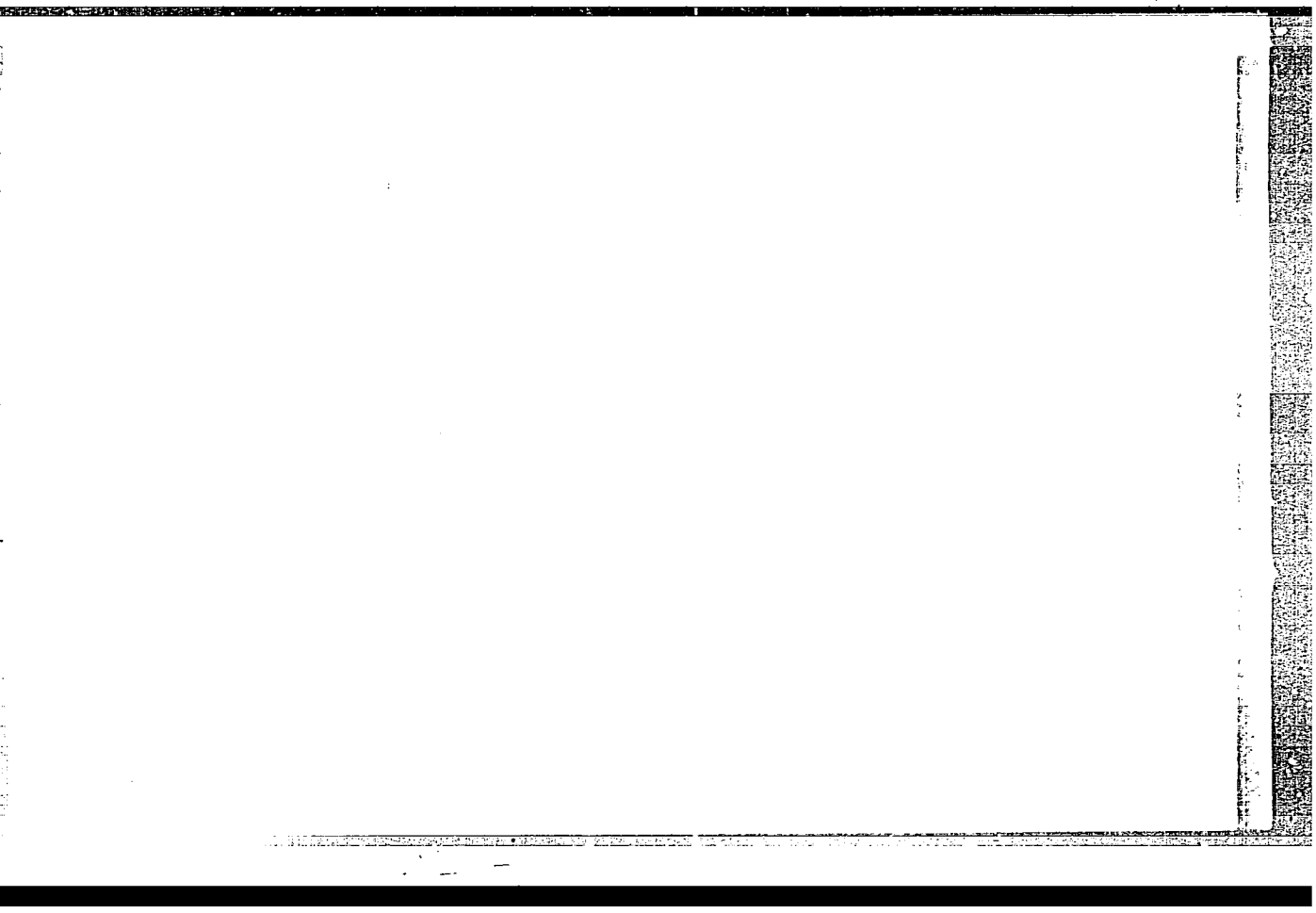

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826620004-3"

L 2373-66 EWT(1)/T IJP(c) GG
ACCESSION NR: AP5020827 UR/0020/65/163/004/0868/0869

AUTHORS: Kasamanly, F. P.; Kroitoru, S. O.; Rud', Yu. V.; Sobolev, V. V.; Syrbu, N. N.

TITLE: The energy band structure in crystals of the group $A^{II}B^{IV}C_2^V$

SOURCE: AN SSSR. Doklady, v. 163, no. 4, 1965, 868-869

TOPIC TAGS: semiconductor, zinc compound, conduction band, Brillouin zone

ABSTRACT: Investigations were made of the energy structure in minerals having the structure of chalcopyrite. The lowest conduction band is simple, and the highest valence band is triple. This paper examines the reflection spectra of $ZnSnAs_2$, $ZnSiP_2$, and $ZnSiAs_2$ in the region of 1-6 ev and at 293K. The spectral distribution of reflectivity showed two intense maximums for each crystal: at 265 and 600 mμ for the first, 280 and 330 mμ for the second, and 275-295 and 370 mμ for the third. The peak at 600 mμ for $ZnSnAs_2$ has a doublet structure with two maximums at 550 and 650 mμ. Spin orbit splitting for $ZnSnAs_2$ proved to be 5-10 times that for the other two. Because of the width of the peaks, doublet structure of a long-wave maximum was not observed in the reflectivity curves of the last two crystals. In

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L 2373-66
ACCESSION NR: AP5020827

general characteristics, the three minerals are very similar. It is concluded that the reflectivity spectra are due to allowed cross-over interzonal transitions at points in the Brillouin zone analogous to points L and X in crystals of group A^{iv} and $A^{iii}B^{v}$. The great general and detailed similarity in reflectivity spectra of the tested crystals to the groups A^{iv} and $A^{iii}B^{v}$ strongly suggests a great similarity in structure of the energy bands and the nature of the chemical bonds of both groups. "The authors express their thanks to Professor D. N. Nasledov for his support of the present work." Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe, Akademii nauk SSSR (Physical and Technical Institute, Academy of Sciences SSSR); Institut prikladnoy fiziki, Akademii nauk MSSR (Institute of Applied Physics, Academy of Sciences MSSR)

SUBMITTED: 15Jan65 ENCL: 00 SUB CODE: SS

NO REF SOV: 005 OTHER: 003

Card 2/2

L 08875-67 EWT(m)/EWP(t)/ETI IJP(c) JD SOURCE CODE: UR/0051/66/021/001/0091/0093

ACC NR: AP6025957

26

AUTHOR: Kroitoru, S. G.; Sobolev, V. V.

ORG: none

TITLE: Reflection spectra of Mg_2Si and Mg_2Sn crystals

SOURCE: Optika i spektroskopiya, v. 21, no. 1, 1966, 91-93

TOPIC TAGS: polycrystal, Brillouin zone, magnesium compound optic material

ABSTRACT: Reflection spectra of polished polycrystals of Mg_2Si, Mg_2Sn, $Mg_2Si_{0.2}Sn_{0.8}$, $Mg_2Si_{0.5}Sn_{0.5}$, $Mg_2Si_{0.7}$, $MnSi_2$, $MnSi_{1.65}$, and $Mg_2Si_{0.6}Ge_{0.4}$ are studied in the range of 1 to 6 ev at 293°K. The purpose of the study was to quantitatively determine the positions of the energy zones of the crystals in various points of the Brillouin zone. All of these crystals (Mg_2X(X=Si, Ge, Sn)) have antifluorite lattices, are face-centered, with cubic translational symmetry. Curves of the reflection spectra are plotted and discussed in detail. Some of the peaks observed in the curves are interpreted. The authors thank Ye. N. Nikitin and N. A. Bul'onkov for supplying the crystals. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 06Apr65/ ORIG REF: 000/ OTH REF: 010

UDC: 535.33 : 535.312 : 548.0

egk

Card 1/1

L 28325-66 EWI(1) IJP(c)

ACC NR: AP6013090 SOURCE CODE: UR/0048/66/030/004/0716/0718

AUTHOR: Kroitoru, S.G.; Levshin, V.L. 31 B

ORG: Physics Department, Moscow State University im. m.v.Lomonosov (Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta)

TITLE: Concerning recombination luminescence of laminar phosphors /Report, Fourteenth Conference on Luminescence held in Riga 16-23 September 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 4, 1966, 716-718

TOPIC TAGS: recombination luminescence, cadmium compound, crystal phosphor, phosphorescence

ABSTRACT: In earlier studies by A.F.Malysheva (Izv. AN SSSR, Ser. fiz., 18, 685, 1954), F.D.Klement and A.F.Malysheva (Trudy in-ta fiz. i ast. AN EstSSR, 1, 44, 1955), and the present authors (Optika i spektroskopiya, 17, 908, 1964 and Izv. AN MoldSSR, 7, 1963) it was shown that laminar CdI_2-$PbHal_2$ and $CdCl_2$-$PbHal_2$ phosphors emit short-persistence luminescence (fluorescence). However, in working with these luminophors, in addition to the fluorescence, the authors observed a persistent afterglow. Little is known regarding the phosphorescence of laminar phosphors, although E.P.Il'mas (Trudy in-ta fiz. i astron. AN EstSSR, No. 21, 83, 1962) inferred that the luminescence of $CdBr_2$:Pb is recombination emission. The purpose of the present work was to determine the nature of the phosphorescence of laminar phosphors, its properties, and the

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conditions under which it is excited. The authors investigated the phosphorescence spectra, the glow curves, the variation of the decay with temperature, the dependence of the luminescence intensity on the excitation density of $CdCl_2$-$PbCl_2$ and CdI_2-PbI_2 phosphors. The specimens were prepared in the form of sublimates and powders by the same procedure as described in the references cited above. The present paper gives the results obtained for 99 $CdCl_2$ + 1 $PbCl_2$ phosphor prepared from a melt, followed by quenching. These specimens exhibited the brightest phosphorescence. However, analogous results were obtained for 99 CdI_2 + 1 PbI_2. In contrast to lead activated alkali halide phosphors, the phosphorescence of these phosphors is excited both in the region of the fundamental absorption and in all the activator absorption bands. All the present experiments were carried out with excitation in the absorption bands associated with the lead. Figures in the original text give the normalized luminescence (total emission) and phosphorescence spectra at different temperatures and the glow curves after excitation by light of different wavelengths. It would appear that the same centers are involved in the fluorescence and phosphorescence, but that the energy released incident to recombination is transferred primarily to the green emission centers. The blue luminescence centers at 20°C are already filled to an appreciable degree by electrons from the valence band. Measurements of the luminescence intensity as a function of the excitation density at 20°C showed that this dependence is nonlinear: for the blue band the emission tends to saturation, while for the green band the process of build-up of the luminescence is superlinear. On the basis

L 28325-66

ACC NR: AP6013090

of analysis of all the experimental data it is concluded that the persistent afterglow is recombination phosphorescence. The same inference holds for CdI_2-PbI_2. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 00/ ORIG REF: 009/ OTH REF: 000

Card 3/3

KROK, B.; ABRAMCHUK, F.; BAZYLEVSKIY, K.; MAKHMUTOV, A.; NAGLIS, A.

Readers' information. Pozh. delo 7 no. 1:29 Ja '60. (MIRA 14:2)

(Fire prevention)

KROK, E.

"Fighting Dust by Means of Ultrasonic Waves" p. 44 (Wiadomosci Gornicze, Vol. 4, No. 2, Feb., 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, Uncl.

KROK, E.

"A CO_2 Thermal Analyzer" p. 216 (Wiadomosci Gornicze, Vol. 4, No. 7/8 July/Aug., 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 2, Library of Congress, February, 1954, Uncl.

KROK, E.

"Detecting the eruption of gases and dust", p. 322, "A town of coal miners is being built in Hungary", p. 324, (Wiadomosci Gornicze. Vol. 4, no. 11, Nov. 1953, Katowice)

SO: Monthly List of East European Accessions, Vol. 3, No. 3 /Library of Congress, March 1954, Uncl.

KROK, E.

"Some Remarks on the Possibility of Applying Infrared Rays in Coal Mining." p. 116, Stalinogrod. Apr. 1954, Vol. 10, no. 4.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

KROK, Edward

POLAND/Laboratory Equipment. Instruments, Their Theory, Construction, and Use. F.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24986

Author : Krok Edward
Inst : -
Title : Electric Analyzers of Mine Gases.

Orig Pub : Przegl. gorniczy, 1957, 13, No 2, 98-102

Abstract : Description of an non-dispersional, electron-optical analyzer of infrared radiation. The infrared radiation of a quartz lamp (QL) is polarized by a circular reflector-polarizer (RP). The infrared rays pass through the gas under study to 4 photocells of PbS type in front of which are located 2 quartz cell compartments (QC) filled with gas under study. QL and a circuit of amplifiers are supplied from an alternating current stabilizer. In front of the QC is located a 4-blade fan-modulator

Card 1/2

POLAND/Laboratory Equipment. Instruments, Their Theory, Construction, and Use. F.

Abs Jour : Ref Zhur - Khimiya, No 8, 1958, 24986

driven by a synchronous motor. The fan cools the RP and QL, agitates the gas under study and modulates the infrared radiation.

Card 2/2

KLICH, Antoni, mgr. inz.; KROK, Franciszek, mgr inz.; MALOWSKI, Marian, mgr inz.; PODGORSKI, Alfred, inz.

Blasting in nonferrous ore mines. Rudy i metale 9 no.12:649-655 D '64.

KROK G.S.

LISITSKIY, Ye.F., professor; KROK, G.S., assistent.

Embryonic development of chiks in an indoor-type incubator ("Ukrgigaat"). Sbor.trud.Khar'.vet.inst. 20:29-36 '49.
(Embryology--Birds) (Incubation) (Poultry) (MLRA 9:11)

KROK, G.S., assistant.

Study of the embryonic development of geese. Sbor.trud.Khar'.vet. inst. 20:37-41 '49. (MLRA 9:11)
(Embryology--Birds) (Geese)

KROK, G.S., assistant.

Structure and functions of the liver in the chick embryo as related to its age. Sbor.trud.Khar'.vet.inst. 20:42-47 '49.
(Liver) (Embriology--Birds) (Poultry) (MLRA 9:11)

KHOK, G.S.

Embryonal growth and transition into the postembryonal state of the excretory organs in ducks. Shor.trud.Khar'.vet.inst. 21:43-59 '52. (MLRA 9:12)

1. Kafedra gistologii i embriologii Khar'kovskogo veterinarnogo instituta.

(Embryology--Birds) (Kidneys)

KROK, G.S., dotsent.

Determining the functional state of cells of the renal epithelium by in vivo staining. Sbor.trud.Khar'.vet.inst. 21:60-65 '52. (MLRA 9:12)

1. Kafedra gistologii i embriologii Khar'kovskogo veterinarnogo instituta.
(Epithelium) (Stains and staining (Microscopy))

KROK, G. S.

"The Embryonal Development of Poultry Kidneys and Their Transition to the Postembryonal State." Dr Biol Sci, Khar'kov Veterinary Inst, Khar'kov, 1954. (RZhBiol, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13) SO: Sum 598, 29 Jul 55

KROK, O.S., dotsent.

Dynamics of the innervation of the kidneys in embryos and chicks in relation to incubation conditions. Sbor. trud. Khar'. vet. inst. 22: 99-112 '54. (MLRA 9:12)

1. Kafedra gistologii i embriologii Khar'kovskogo veterinarnogo instituta.
(Kidneys--Innervation) (Embryology--Birds)

COUNTRY : [illegible]
CATEGORY : Farm Animals. The Swine. Q
ABS. JOUR. : RZhBiol., No.3, 1959, No. 12045
AUTHOR : Prok, G. S.
INST. :
TITLE : [illegible] Mammary Gland in Sows.

ORIG. PUB. : Sots. tvarinnitstvo, 1957, No 9, 62

ABSTRACT : The morphological characteristics of the mammary gland in the pig were studied on [illegible] sows of the Large White breed. At the age of 1 year as a large part of the mammary gland consists of connective tissue and in unmated young pigs glandular cells are as yet meagerly developed. On the 90th day of pregnancy glandular cells become significantly enlarged, droplets of secretion are found in them and the connective-tissue lumen becomes reduced. On the 40th day of lactation the glandular tissue

Card: 1/3

COUNTRY : USSR
CATEGORY :
ABS. JOUR. : RZhBiol., No. 1959, No.
AUTHOR :
INST. :
TITLE :

ORIG. PUB. :

ABSTRACT : composes 88-90 percent of the entire mammary gland. Alveolus lumens are wide and filled with secretion. It was established by histological analysis that the 2nd, 3rd and 4th pairs of the mammary gland are developed most, their glandular sector constitutes 90 percent, whereas the 5th and 6th pairs are less well developed and their glandular tissue composes 51 percent and the 7th and 8th pairs are underdeveloped. In the first pairs all glands had

CARD: 2/3

KROK, Galina Semenovna, prof., doktor biolog. nauk; BORDZILOVSKAYA, N.P., kand. biolog. nauk, otv. red.; ZHELIKHOVSKIY, V.I., red.; LAPCHENKO, Ye.P., tekhn. red.

[Microscopic structure of the organs of poultry with the fundamentals of embryology] Mikroskopicheskoe stroenie organov sel'skokhoziaistvennykh ptits s osnovami embriologii. Kiev, Izd-vo Ukrainskoi akad. sel'khoz. nauk, 1962. 186 p. (MIRA 15:7)

(Poultry—Anatomy) (Incubation)

KROKAR, Z

15

Production of asphaltic bitumen from an Edeleanu extract. Matija Krešimirović, Boris Prohaska, Dušanka Žutić, and Zdenka Krokar (Univ. Zagreb). *Nafta* (Yugoslavia) 8, 203–5(1957).—An Iraq solvent-refined lubricating-oil Edeleanu ext., previously freed of the fraction distg. up to 250°, was converted into asphaltic bitumen by air-blowing in the presence of 1% P_2O_5. N. Plavšić

6

TH

KROKAS, Valentina Kirillovna [Krokas, Valientsina]

We are building a new life. Rab.i sial. 38 no.11:12-13 N '62. (MIRA 15:11)

1. Predsedatel' zhenskogo soveta sovkhoza "Argeuski", Argeyevskogo rayona Moldavskoy SSR.
(Moldavia—Women as farmers)

KROKH M.N
Card 2

PHASE I BOOK EXPLOITATION 1113

Ural'skiy zavod tyazhelogo mashinostroyeniya, Sverdlovsk

Svarochnoye proizvodstvo (The Welding Industry) Moscow, Mashgiz, 1958. 126 p. (Series: Its: Sbornik statey, vyp. 6) 4,000 copies printed.

Eds.: Stepanov, V. V., Candidate of Technical Sciences and Kirillov, A. A., Engineer; Executive Ed. (Ural-Siberian Division, Mashgiz): Bezukladnikov, M. A., Engineer.

PURPOSE: This book is intended for welding engineers and technicians.

COVERAGE: This is a collection of articles published in connection with the 25th anniversary of the Ural'skiy zavod tyazhelogo mashinostroyeniya imeni S. Ordzhonikidze (Ural Heavy Machinery Plant imeni S. Ordzhonikidze) and dealing with developments in the field of welding during the 25 years of the plant's existence. The most interesting investigations dealing with the improvements of quality and the increase of productivity of welding operations are described. The first article deals with the history of the development of metal structures, welding, and flame surface

Card 1/3

hardening. The second deals with the application of automatic welding, and the third with investigations on new SK-4 electrodes. The fourth article describes a method of determining regimes of flame surface hardening and the fifth, seventh, and last deal with investigations of the weldability of martensitic stainless chrome steel, low-carbon low-alloy steel of increased strength, and grade 10KhGSND (MS-1) steel. The sixth article deals with carbon-dioxide-shielded welding with a consumable electrode.

TABLE OF CONTENTS:

Kirillov, A.A. History of the Development of Metal Structure, Fabrication Welding and Gas Flame Processes at the Ural Heavy Machinery Plant 3

Kuklin, V.V. Application of Automatic Welding at the Ural Heavy Machinery Plant 17

Stepanov, V.V.; Krokh, A.N.; and Kirillov, A.A. SK-U Electrodes for Electric-arc Welding 28

Speshkov, V.V. Determining Regimes of Flame Surface Hardening 41

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Batmanov, V.A. Weldability of Low-carbon Low-alloy Steel of Increased Strength 87

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AVAILABLE: Library of Congress

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SOV/137-59-5-10393

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Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 136 (USSR)

AUTHORS: Stepanov, V.V., Krokh, A.N., Kirillov, A.A.

TITLE: "SK-U" Electrodes for Electric Arc Welding

PERIODICAL: Sb. statey, Ural'skiy z-d tyazh. mashinostr. im. S. Ordzhonikidze, 1958, Nr 6, pp 28 - 40

ABSTRACT: Weld joints with flaky surfaces are more prone to rusting under tropical conditions than weld joints with smooth surfaces. In this connection "K5A" electrodes were replaced by new "SK-U" electrodes ensuring the formation of angular and butt welds with minimum flake formation on the surface (when welding in lower position). These electrodes correspond to the "E50A" type of GOST-2523-51 and are designed for welding medium-carbon steel. The composition of the coating (in %): fluorspar 18, chalk 23, Ti dioxide (electrode type) 7.5, Fe-Si (45%) 7.5, Fe-Mn 7.5, kaolin 6.5, Fe-powder, group A and B 30, water glass 25. Thicknesses of 1.25 - 1.35, 1.4 - 1.5 and 1.45 - 1.5 mm are recommended for the coating of electrodes of

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"SK-U" Electrodes for Electric Arc Welding SOV/137-59-5-10393

4 mm, 5 mm and 6 mm diamter, respectively. Wire of Sv08 and Sv08A grade is used. Welding is possible in all spatial positions of the seam and is carried out with a short d-c arc of reverse polarity. The mechanical properties of the seam metal are $\sigma_b \approx 50$ kg/mm^2, a_k 12 - 20 kgm/cm^2 at room temperature. At -40°C, a_k decreases down to 10 - 15 kgm/cm^2. The electrodes are not sensitive to rust. The seam metal did not show a considerable reduction of a_k after heating up to 650°C, water quenching and holding for ten days, and after mechanical aging. The following characteristics of electrode melting are given: α_r = 10.4 g/a.hour; α_n = 10.7 g/a . hour.

O.K.

Card 2/2

KROKHA, V.A.

Some problems of hardening during cold upsetting. Kuz.-shtam.proizv. 1 no.12:11-14 D '59. (MIRA 13:4)
(Forging) (Metals--Cold working)

BIRYUKOV, V.I., inzh.; KROKHA, V.A., inzh.

Determination of stresses in flat coining. [Nauch. trudy] ENIKMASHa 3:117-126 '60. (MIRA 14:1)
(Sheet-metal work) (Strains and stresses)

S/182/60/000/011/008/016
A161/A029

AUTHOR: Krokha, V.A.

TITLE: The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 11, pp.27-30

TEXT: As can be seen from Table 1, hot-rolled rod steel is subjected to very different deformation degrees in sizing by drawing through dies at different producer plants (between 9 and 48%). An experimental investigation has been carried out to determine the effect of work hardening on steel rod stock in cold pressure working processes. The experimental hot-rolled rods of the following steel grades were deformed to different degrees by drawing:

Steel	Deformation degree in sizing, in %	Chemical composition in %			
		C	Mn	Si	Cr
10	20	0.11	0.45	0.21	-
15	16.5; 20; 32; 47	0.15	0.43	0.27	-

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A161/A029

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

Steel	Deformation degree in sizing, in %	Chemical composition in %			
		C	Mn	Si	Cr
20	21.5	0.22	0.60	0.29	-
25	46	0.23	0.45	0.22	-
45	13; 30	0.45	0.66	0.20	-
20X (20Kh)	16; 22	0.23	0.67	0.25	0.91
45X (45Kh)	19; 26; 5; 33	0.44	0.61	0.19	0.90

Hardening diagrams(Fig. 2, 3, 4) were plotted for upsetting of specimens with end hollows filled with lubricant (Fig. 1) (M.V. Rastegayev specimens, described in "Zavodskaya laboratoriya", 1940, No. 3). This method makes possible practically uniaxial reduction to 60-70%. Stearine was used for lubricant. A 200-ton EKK-200-M1 (EKK-200-Mi) laboratory press used for upsetting the specimens had a 0.001 m/sec speed of the work tool. As can be seen from diagrams, the true deformation resistance S (in kg/mm^2) rose constantly with a rising deformation degree [illegible], but not evenly in compression

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

of annealed or hot-rolled metal. It rose rapidly at low deformation, then less intensely and became practically constant in the deformation above 20%. The diagrams for work-hardened steel were different: the resistance rose rapidly with rising deformation up to 10% only, then remained practically constant, then gradually increased with increasing deformation degree and finally coincided with the curve of hot-rolled steel. Curves (Fig. 5 and 6) were plotted for determining the mathematical dependence between the true deformation resistance of steel gaged by drawing and hot-rolled steel. As can be seen, this relation $\frac{S'}{S}$ drops abruptly with increasing deformation degree, and after reaching a certain value it remains constant and equal to one. It is obvious that work hardening affects harder metal less than softer. The dependence $\frac{S'}{S}$ is expressed by the equation

$$\frac{S'}{S} = ae^{b\varepsilon}$$

where a is a coefficient depending on the strength of the initial metal and

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

the deformation degree in sizing, and b is an index that also depends on the strength of hot-rolled steel and the deformation degree in sizing. The values of both are given (Table 3):

Steel grade	Deformation in sizing, %	Coefficient a	Index b
10	20	2.1	-0 20
15	20	2.14	-0.26
15	32	2.5	-0.23
15	47	2.9	-0.218
25	46	1.9	-0.18
45	13	1.37	-0.08
45	30	1.6	-0.10
20Kh	16	1.4	-0.10
20Kh	22	1.5	-0.12
45Kh	19	1.11	-0.03
45Kh	26.5	1.30	-0.07
45Kh	33	1.46	-0.10

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A161/A029

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

As is evident from this table, the absolute value of a and b mostly increases with the plasticity of hot-rolled steel and with the deformation degree in sizing, but no strict law of variation can be derived. It is considered proven that hardening caused by preliminary sizing of metal has a considerable effect on true deformation resistance under load applied at right angles to the preceding load and this phenomenon must be taken into account. The effect of preliminary work hardening on the required deformation effort will be high in cold stamping and heading of parts with small deformation degrees, e.g., upsetting of a rim on a pin, heading parts with tapered heads. It is obvious from diagrams (Fig. 3,4) that true deformation resistance of hot-rolled steel exceeds the resistance of the same steel after annealing. In stamping parts with a deformation of 50-60% (as in heading most fasteners) the true deformation resistance can be determined by the hardening diagrams for hot-rolled metal. There are 6 figures and 3 tables.

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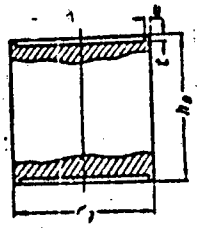
The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

Fig. 1 - Specimen



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A161/A029

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

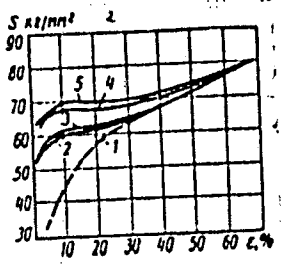

Fig. 2 - Hardening diagram for steel "15": 1 - hot-rolled; 2 - 5 after drawing with different degrees of deformation

Card 7/11

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A161/A029

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

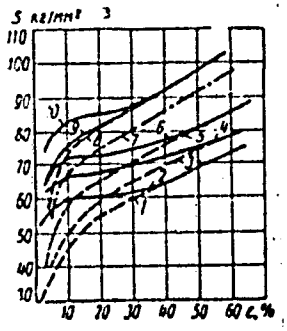

Fig. 3 - Hardening diagram for carbon steel: 1 and 2 - steel "10" hot-rolled and drawn with 20% deformation; 3 and 4 - steel "20" hot-rolled and drawn; 5 and 6 - same for steel "25" 7 - annealed steel "45"; 8 - hot-rolled steel "45"; 9 - drawn steel "45"; 10 - drawn steel "45".

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A161/A029

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

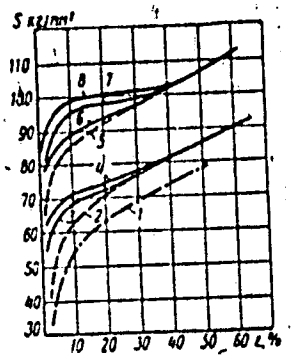

Fig. 4 - Chromium steel: 1 - annealed "20Kh"; 2 - same hot-rolled; 3 - drawn with 16% deformation; 4 - with 22%; 6 - drawn steel "45" (19%); 7 - same 26.5%; 8 - same 33%

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A161/A029

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

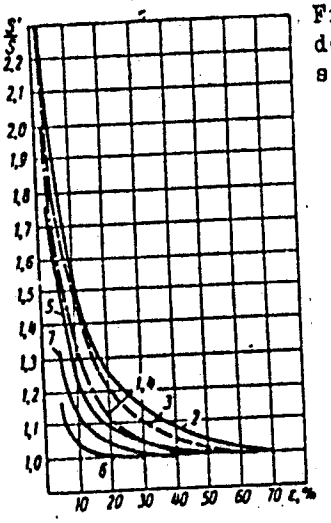

Fig. 5 - The effect of deformation degree on the $\frac{S'}{S}$ relation in carbon steel

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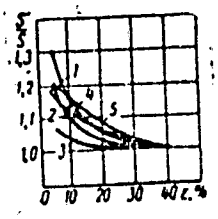
A161/A029

The Effect of Preliminary Work Hardening on the True Deformation Resistance in Cold Three-Dimensional Stamping and Heading

Fig. 6 - The effect of deformation degree on the $\frac{S'}{S}$ relation in chromium steel



Card 11/11

22985
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18.8200

AUTHOR: Krokha, V.A.

TITLE: The effect of the deformation degree on the actual deformation resistance in cold steels

PERIODICAL: Kuznechno-shtampovochnoye proizvodstvo, no. 7, 1961, 6-10

TEXT: The author, in studying the effect of the deformation degree on the actual deformation resistance in cold steels, set up hardening curves for carbon and alloy steels which had been subjected to heat treatment or hot rolling. These curves were based on experimental data obtained at ENIKMASh. The actual deformation resistance was determined by upsetting specimens with oil-filled cavities at the butt ends, according to a method described by M.V. Rastegayev (Ref. 9, Zavodskaya laboratoriya, no. 3, 1940) [Abstracter's note: Ref. 9 is erroneously rendered in the text as "Ref. 8"]. It can be seen from figs. 1-3 that hardening of all steels was similar in nature regardless of their initial state and that every S (deformation resistance) $= \delta(\varepsilon)$ (deformation degree) curve could be divided into the following three sections: 1) Intense increase in the actual deformation resistance relative on an average to a deformation degree of up to 5%; 2) Less intense increase relative to a deformation degree of between 5 and 20%; 3) Inconsiderable increase

Card 1/6

The effect of the deformation degree ....

relative to a deformation degree of between 20 and 70% (70% is the compression limit used in the experiments). The dependence for the range $\varepsilon = 0 \div 20\%$ was expressed as $S = S_0 + a\varepsilon^{\beta}$, where S_0 is to the yield limit at compression. At deformations above 20%, the dependence $S = f(\varepsilon)$ corresponds to the equation $S = a_1 + b_1\varepsilon_1$, where $\beta = 0.45 \div 0.65$ is the coefficient not depending on the strength of the initial material; and a_1 is a coefficient depending on the strength of the given material. In a hot rolled carbon steel, the a_1 coefficient increases with an increase in the carbon content (Fig. 4) which also effects the actual resistance (Fig. 5). The following empirical formulas were derived for 0 - 7 steels, ГОСТ 380-50 (GOST 380-50) and 08кп (08kp) - 70 steels, ГОСТ 1050-57 (GOST 1050-57): when $\varepsilon = 1 \div 20$, $S = -25 + 80C + 36\varepsilon^{0.25}$ kg/mm^2 (1) and when $\varepsilon \geq 20\%$, $S = 38 + 80C + 0.45\varepsilon$ kg mm^{-2} (2), where ε is the deformation degree in %; and C the carbon-content in %. The difference between the calculated and measured actual resistance values did not exceed 2.5 kg/mm^2.

This data .....

Card 2/6

The effect of deformation degree .....

disproves the conclusions arrived at by L.A. Shofman (Ref. 2. Elementy teorii kholodnoy shtampovki [Principles of Cold Stamping Theory] , Oborongiz, 1949) but matches the data of Ye.P. Unksov (Ref. 10. Inzhenernyye metody rascheta usiliy pri obrabotke metallov davleniyem [Engineering Computation Methods of Efforts in Pressure Metal Working] , Mashgiz, 1955). The augmentation of true deformation resistance at the increase of ε by 1% at $\varepsilon > 20\%$ does not depend on the strength of material and constitutes approximately 0.45 - 0.65 kg/mm^2. There are 8 figures, 1 table and 12 Soviet references.

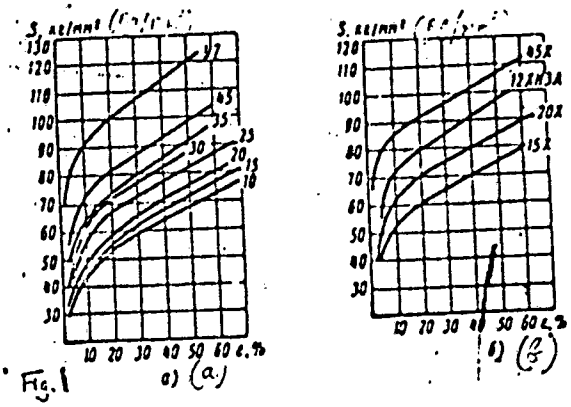

Fig. 1

Card 3/6

KROKHA, V.A.; SUVORINA, L.N.; BAKHOVKIN, A.M.

Technical and economic analysis of gear wheel manufacture by knurling. Kuz.-shtam. proizv. 4 no.5:39-45 My '62. (MIRA 16:5)
(Gear cutting)

S/226/63/000/001/015/016
E194/E135

AUTHORS: Krokha, V.A., and Bakhovkin, A.M.

TITLE: A progressive [powder metallurgical] method of making gear wheels (Review)

PERIODICAL: Poroshkovaya metallurgiya, no.1, 1963, 104-111

TEXT: A press tool used by Ford (U.S.A.) to make oil pump pinions is described; the special feature of the design is that the pinion is both pressed and ejected in the same tool. Also described is the procedure adopted by the firm Morriman Brothers Inc. (U.S.A.) for making cylindrical pistons with skew teeth. The pinions require no further machining, the tolerance on outside diameter for the biggest pinion is 0.1 mm and for the smallest, 0.05 mm. The tolerance on internal diameter is 0.025 mm. Oil pump pinions made during 1958-1959 in the Laboratoriya poroshkovoy metallurgii BPI (Powder Metallurgy Laboratory of BPI) were tested on factory rigs at the KhTZ and under production conditions on 250 tractors type ДТ-54 (DT-54). The pinions worked for the guaranteed 3000 hours with little wear. British work on pistons made of carbides of Ti, W and others is also described.

Card 1/2

A progressive [powder metallurgical]... S/226/63/000/001/015/016
E194/E135

Until powder metal gears were introduced at the ГАЗ (GAZ) works for use in oil pumps, as many as 60 engines a day were rejected for noise but the problem has now been fully overcome. The use of powder metallurgy methods to make gears of complicated shape may be justified for relatively short runs of 700 - 1000 items per year.

There are 6 figures and 2 tables.

ASSOCIATION: Eksperimental'nyy nauchno-issledovatel'skiy institut kuznechno-pressovogo mashinostroyeniya
(Experimental Scientific Research Institute of Forged and Pressed Machinery)

SUBMITTED: December 1, 1961

Card 2/2

KROKHA, V.A., inzh.; SUVORINA, L.N., inzh.; BAKHOVKIN, A.M., inzh.

Analyzing the production of gear wheels by the knurling method. [Nauch. trudy] ENIKMASha 7:55-69 '63. (MIRA 16:7)

(Gearing) (Forging)

KROKHA, V.A., inzh.; SUVORINA, L.N., inzh.; BAKHOVKIN, A.M., inzh.

Technical and economic indices of manufacturing gear wheels by press forging. [Mauch. trudy] ENIKMASha 7:90-110 '63.
(MIRA 16:7)

(Gearing) (Forging—Costs)

KROKHA, V.A.; BAKHOVKIN, A.M.

Progressive method of manufacturing gear wheels. Porosh. met. 3 no.1:104-111 Ja-F '63. (MIRA 16:3)

1. Eksperimental'nyy nauchno-issledovatel'skiy institut kuznechno-pressovogo mashinostroyeniya.
(Gearing) (Powder metallurgy)

KROKHA, V.A.; PROTOPOPOV, O.V.; BAKHOVKIN, A.M.

Analysis of the technological and economic indices of gear wheel forging with finishing of the gears. Kuz.-shtam.proizv. 5 no.7: 31-35 Jl '63. (MIRA 16:9)

KROKHA, Yu.

Saw for the removal of horns from cattle. Mias. ind. SSSR 28 no.6: 56 '57. (MIRA 11:1)

1. Glavnyy inzhener Alma-Atinskogo myasokonservnogo kombinata.
(Packing houses--Equipment and supplies) (Dehorning)

KROKHALEV, A.A.

Quantitative determination of potassium and sodium in some biological liquids by means of flame photometry. Lab. delo 7 no.5:12-14 My '61. (MIRA 14:5)

1. Khirurgicheskaya klinika (zav. - zasluzhennyy deyatel' nauki prof. I.S. Zhorov) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.
(POTASSIUM--ANALYSIS) (SODIUM--ANALYSIS)
(PHOTOMETRY)

KROKHALEV, A.A. (Moskva)

Potassium depletion in the postoperative period. Klin. med. 41 no.7:80-82 Jl '63 (MIRA 16:12)

1. Iz kliniki fakul'tetskoy khirurgii (zav. - zasluzhennyy deyatel' nauki prof. I.S.Zhorov) sanitarno-gigiyenicheskogo fakul'teta I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

KROKHALEV, A.A.

Electrolytic metabolism in different types of anesthesia. Eksper. khir. i anest. 8 no.3:83-89 My-Je '63 (MIRA 17:1)

1. Iz kliniki fakul'tetskoy khirurgii (zav. - prof. I.S.Zhorov) I Moskovskogo ordena Lenina meditsinskogo instituta.

KROKHALEV, A.A.

Some problems concerning postoperative electrolyte metabolism. Khirurgiia 40 no.7:28-31 Jl '64.

(MIRA 18:2)

1. Klinika fakul'tetskoy khirurgii (zav. - prof. I.S. Zhorov) sanitarno-gigiyenicheskogo fakul'teta Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechencva.

KRYZHANEV, A.A.; VISHNEVSKAYA, M.A.; [illegible]

Changes in basic electrolyte metabolism [illegible] in the organs of the chest cavity and in the [illegible] period. Eksper. khir. i anest. 9 no.6:62-66 N-D '64. (MIRA 18:7)

1. Klinika fakul'tetskoy khirurgii (zav. - prof. I.A.Kryzhanev) sanitarno-gigiyenicheskogo fakul'teta I [illegible] ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

SHCHUKIN, P.I., kand.med.nauk; KROKHALEV, A.A.

Problems of mineral metabolism in gerontology. Trudy 1-go MMI 41:175-180 '65. (MIRA 18:12)

KROKHALEV, A.K.

Late blossoming. Priroda 49 no.10:118 O '60. (MIRA 13:10)

1. Dal'nevostochnyy nauchno-issledovatel'skiy institut lesnogo khozyaystva, Khabarovsk.
(Amur Valley--Plants, Flowering of)

KROKHALEV, F.S., dots., kand. nauk.

Development of agricultural specialization and cropping practices in the prerevolutionary Russia. Dokl. TSKhA no.27:74-79 '57.
(Agriculture) (Rotation of crops) (MIRA 11:4)

KROKHALEV, Fedor Sergeyevich, doktor ekonom.nauk; KANTOROVICH, A.V., red.; FREYDMAN, S.M., red.; PEVZNER, V.I., tekhn.red.

[Outline history of farming systems] O sistemakh zemledeliia; istoricheskii ocherk. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 430 p. (MIRA 13:12)

(Agriculture)

KROKHALEV, F.S., doktor ekonomicheskikh nauk

Farm management systems. Izv. TSKha no.2:7-18 '60. (MIRA 14:4)
(Agriculture)

KROKHALEV, L.Ye.

Rotators of boring outfits used for boring soft rocks. Biul. TSNIICHM no.16:46-47 '57. (MIRA 11:5)

1. Alapayevskoye rudoupravleniye.
(Boring machinery)

ACC NR: AP6029081 (A) SOURCE CODE: UR/0413/66/000/014/0145/0145

INVENTOR: Kovalenko, A. V.; Malokhatko, V. T.; Krokhalev, V. L.

ORG: none

TITLE: A method of mounting tractor treads. Class 63, No. 184156 [announced by the Chelyabinsk Tractor Plant (Chelyabinskiy traktornyy zavod)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 145

TOPIC TAGS: tracked vehicle, transportation equipment, tractor, servicing technique

ABSTRACT: An Author Certificate has been issued for a method of mounting tractor treads, which includes the preliminary laying out of

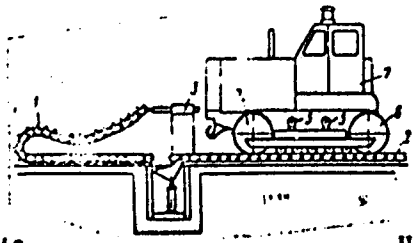

Fig. 1. Track mounting assembly

1 - Assembly of track; 2 - path; 3 - stand; 4 - idler wheel; 5 - track support rollers; 6 - sprocket; 7 - tractor.

Card 1/2 UDC: 629.11.012.57. .00272:629.114.2

ACC NR: AP6029081

the track, the rolling of the vehicle onto it, the connection of the end links, and the pressing in of the closing track pin (see Fig. 1). To save effort, the track band is placed vertically in the form of a semi-loop and fastened, its upper end raised so that the idler wheel can pass under it. The tractor is rolled onto the lower part of the track, the upper part of which is then lowered on the track drive sprocket, which tightens the track to close the end links. Orig. art. has: 1 figure.

SUB CODE: 13, 19/ SUBM DATE: 15Jul65

Card 2/2

KROKHALEV, V. Z.

PA 18T69

USSR/Mines and Mining - Equipment Sep 1947
Tools, Cutting

"Choice of Type of Chisel-sharpening Instrument,"
V. Z. Krokhalev, 3 pp

"Gornyy Zhurnal" No 9

Bucyrus model apparatus does not meet requirements of USSR factories. Main drawback seems to be a lack of method to temper the chisels at the same time they are being sharpened. Reference made to instruments produced by Ingersoll-Rand and Dzhil'.

18T69

LIVOVSKIY, P.G.; PAL'MOV, Ye.V., professor doktor, retsenzent; KRASNOV, K.V., inzhener, retsenzent; ZAKROCHINSKIY, S.V., inzhener, retsenzent; SHKLOVSKIY, M.B., inzhener, retsenzent; BOGACHEV, I.N., professor doktor tekhnicheskikh nauk, redaktor; AKHUN, A.I., kandidat tekhnicheskikh nauk, redaktor; BARANOV, V.M., kandidat tekhnicheskikh nauk, redaktor; RYZHIKOV, A.A., kandidat tekhnicheskikh nauk, redaktor; FILIPPOV, A.S., kandidat tekhnicheskikh nauk, redaktor; CHERNOBROVKIN, V.P., kandidat tekhnicheskikh nauk, redaktor; YAKUTOVICH, M.V., kandidat tekhnicheskikh nauk, redaktor; GRISHCHENKO, M.F., inzhener, redaktor; ZASLAVSKIY, I.A., inzhener, redaktor; KROKHALEV, V.Z., inzhener, redaktor; SOSKIN, M.D., inzhener, redaktor.

[Manual for the mechanic in a metallurgical plant] Spravochnoe rukovodstvo mekhanika metallurgicheskogo zavoda. Izd.3., ispr.i dop. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953. 1112 p. (MLRA 7:4)
(Mechanical engineering--Handbooks, manuals, etc.)

KROKHALEV, Yu.S. (Leningrad, D-25, Nevskiy prospekt, d.92, kv.47)

Hemodynamic changes during the first hours following operations on the lungs. Grud. khir. 6 no.4:74-77 Jl-Ag '64.

(MIRA 18:4)

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